PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 12557510/MKR/KLL	FOR FURTHER ACTION See Form PCT/IPEA/416							
International application No. PCT/AU2005/000037	International filing date (day/month/year) 14 January 2005 Priority date (day/month/year)							
International Patent Classification (IPC) or r	14 January 2003 16 January 2004							
Int. Cl. B01F 7/16 (2006.01) B041 B09B 3/00 (2006.01) B02C Applicant	B 5/12 (2006.01) F26B 11/14 (2006.01) B02C 13/14 (2006.01) 19/06 (2006.01) C02F 1/38 (2006.01)							
ADVANCED GRINDING TECH	NOLOGIES PTY LIMITED et al							
1. This report is the international preliminary	examination report, established by this International Preliminary Examining							
2. This REPORT consists of a total of 4 sh	tets, including this cover sheet							
3. This report is also accompanied by ANNE	XES, comprising:							
a, X (sent to the applicant and to the In-	ternational Bureau) = total of 8 sheets, as follows:							
sheets containing rectification Administrative Instructions).	ns and/or drawings which have been amended and are the basis for this report and/or s authorized by this Authority (see Rule 70.16 and Section 607 of the							
shoets which superrede earlies	sheets, but which this Authority considers contain an amendment that goes beyond							
the disclosure in the internation Box.	all application as filed, as indicated in item 4 of Box No. I and the Supplemental							
b. (sent to the International Bureau on a sequence listing and/or table related	(y) a total of (indicate type and number of electronic carrier(s))							
Sequence Listing (see Section 802 of 4. This report contains indications relating to the	the Administrative Instructions).							
X Box No. I Basis of the report	2 totowing terms:							
Box No. II Priority								
Box No. IV Lack of unity of invent	pinion with regard to novelty, inventive step and industrial applicability							
Lack of unity of invent	On .							
citations and explanations supporting such statement X Box No. VI Certain documents cited								
Box No. VIII Certain observations on	the international application							
Date of submission of the demand								
16 November 2005	Date of completion of this report							
Name and mailing address of the IPEA/AU	13 Јапиагу 2006							
AUSTRALIAN PATENT OPEICE	Authorized Officer							
PO BOX 200, WODEN ACT 2606 ALICTRALL								
E-mail address: pct@ipaustralia.gov.au Pacsimile No. (02) 6285 3929	MATTHEW FRANCIS							
	Telephone No. (02) 6283 2424							
Form PCT/IPEA/409 (Cover sheet) (April 2005)	· ·							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

Box No. I Basi	s of the report	PCT/AU2005/000037
1. V regard to the	: language, this report is based on:	
X The internat	onal application in the language in which it was filed	
A translation		
translation fi	of the international application into mished for the purposes of:	which is the land
-		, which is the language of a
interna	tional search (under Rules 12.3(a) and 23.1 (b))	
Dublica publica	tion of the international	
	tion of the international application (under Rule 12.4(a))	
2. With regard to the	tional preliminary examination (Rules 55.2(a) and/or 55.3(· (a))
furnished to the rec filed" and are not a the internation	netined of the international application, this report is base eiving Office in response to an invitation under Article 14 unexed to this report): al application as originally filed/furnished	ed on (replacement sheets which have been are referred to in this report as "originally
X the description		
	pages 1-30 as originally filed/furnished	
	pages* received by this Authority on with the lett.	
₩	pages" received by this Authority on with the lett.	er of
X the claims:		
	pages as originally filed/furnished	•
	pages* as amended (together with any statement) un	der Article 19
	The secretary this Authority on 16 November	2005 11 1
X the drawings:	pages received by this Authority on with the letter	r of
	pages 1-6 as originally filed/forming	
	and the state of t	
	pages* received by this Authority on with the letter pages* received by this Authority on with the letter	of.
a sequence listing	and/or any related table(s) - see Supplemental Box Relati	or
The amendments	have resulted in the cancellation of:	ng to Sequence Listing.
	ption, pages	•
the claim		
	ngs, sheets/figs	i
	ace listing (specify):	
الماسية الماسية	s) related to the sequence listing (specify);	
made, since they have 70.2(c)).	n established as if (some of) the amendments annexed to the ve been considered to go beyond the disclosure as filed, as	nis report and listed below had not been s indicated in the Supplemental Box (Rule
the descrip	ion, pages	
the claims,		
	s, sheets/figs	
	c listing (specify):	
	related to the sequence listing (specify):	
If item 4 applies, some or a	l of those sheets may be marked "superseded."	
	"Superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/AU2005/000037

D19: Derwent Abstract Accession No. 2003-595298/56

D20: Derwent Abstract Accession No. 97-200542/18

Box No. V Reasoned statement	under Article 35(2) wi	ith regard to novelty, inventive step or industrial applicabilit
citations and explana 1. Statement	tions supporting such	statement statement
Novelty (N)	Claims 1-56	YES
Yourselve	Claims	NO
Inventive step (IS)	Claims 1-56	YES
Industrial applicability (IA)	Claims	NO
	Claims 1-56 Claims	YES
Citations and explanations (Rule 70.7)		NO
D1: Derwent Abstract Accession D2: DE 3002429		D11: DE 20215158 D12: EP 1273341
D3: AU 19540/00 D4: AU 15002/97		D13: EP 1208905 D14: US 5538342
D5: DE 3916258 D6: Patent Abstracts of Japan, JP	09-066243	D15: Patent Abstracts of Japan, JP 2002-035562 D16: Patent Abstracts of Japan, JP 2002-059144
D7: US 4650343 D8: US 4799595		D17: Patent Abstracts of Japan, JP 2002-282723
D9: US 2003/0197080		D18: Patent Abstracts of Japan, JP 2003-093909

Novelty and Inventive Step (Claims 1-65)

D10: US 2002/0064086

Documents D1-D20 disclose various examples of processing apparatus, all of which feature a chamber, and inlet, an outlet and a rotor rotated about a vertical axis. The apparatus of documents D1-D20 are used for a wide variety of purposes, such as milling or grinding, mixing, blending, separation, drying and sterilisation. However, none of the cited art discloses or suggests the combination of features presently claimed. In particular, there is no disclosure of a single rotor of substantially circular gross cross section rotatable at 200kph-1200kph about a vertical axis having features thereon that promote a circulatory flow within the chamber. Hence these claims are

Industrial Applicability (Claims 1-65)

The current claims are directed towards a processing apparatus and therefore have industrial applicability.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

1. Certain published documen	ats (Rule 70.10)			
Application No. Patent No. WO 2004/067468 US 2004/0218464 WO 2004/041442 DE 10308500 WO 2004/091797	Publication date (day/month/year) 12 August 2004 4 November 2004 21 May 2004 23 September 2004 28 October 2004	Filing date (day/month/y) 26 January 20 2 May 200 24 October 20 26 February 20 16 April 200	(day/month) (day/month) (004 29 January 13 2 May 200 1003 4 November 1003 26 February 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003 1003	<u>(vear</u> 200: 03 200: 200:
Non-written disclosures (Rule 7		n disclosure (year)	Date of written disclosure referring to non-written disclos (day/month/year)	ure
	Date of pon-writte	n disclosure (year)	referring to non-written disclos (day/month/year)	ure